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CENTRAL INTELLIGENCE AGENCY

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COUNTRY	USSR (Moscow Oblast)	REPORT	
SUBJECT	Serp i Molot Metallurgical Plant <i>(Description / Transportation Methods)</i>	DATE DISTR.	19 December 1958
		NO. PAGES	1
		REFERENCES	

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DATE OF INFO.	
PLACE & DATE ACQ.	

SOURCE EVALUATIONS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE.

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This report contains a [redacted] sketch of the plant layout, descriptions of the products produced and the furnaces, and miscellaneous information concerning the plant. A secret laboratory is located on the plant layout sketch, and an automatic 100-ton furnace is mentioned.

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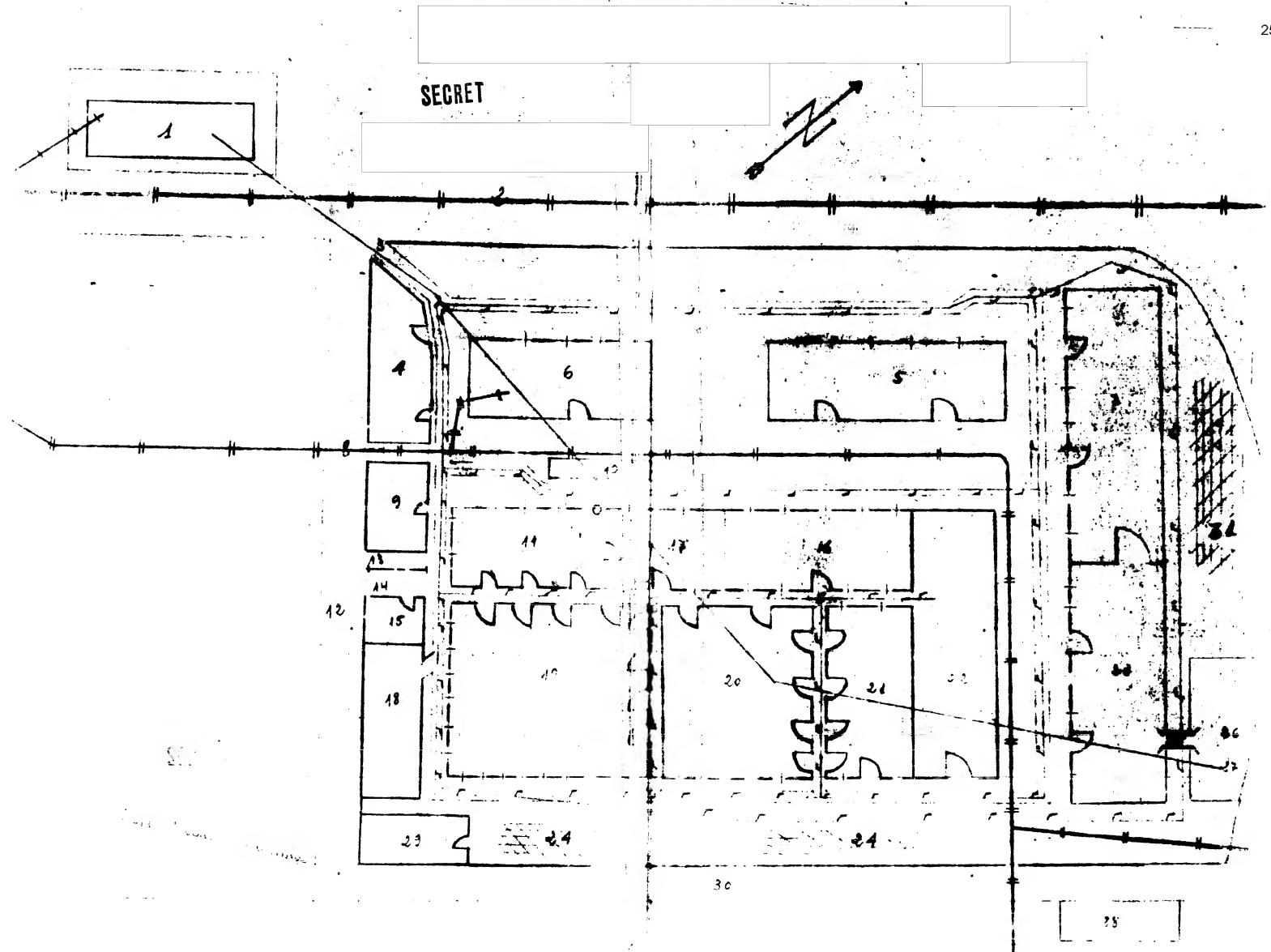
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S E C R E T**COUNTRY: USSR (MOSCOW)**

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SUBJECT: SERP I MOLOT METALLURGICAL PLANT

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SERP I MOLOT METALLURGICAL PLANT

The Serp I Molot Metallurgical Plant (once called GUSON) was located in

the city of Moscow in Pervomayskiy oblast. It was subordinate to the

Ministry of Black Metals.

(See sketch of plant)

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on page .)

PRODUCTS

The plant made ingots, bars, sheet metal, metal plates, copper coated steel

wire, rails, Povayin (a very hard substance), other smelted products, rollers of unknown weights and sizes for its own use, metal toys, silverware,

resistors for small electric furnaces, and supplied gas to another un-

identified plant.

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The plant had the following types of furnaces which could produce from 120

~~to 300 batches:~~

- 1 Automatic 15 x 8-meter 100-ton fuel oil furnace (named after the Russian who invented it) which performed all the required functions and worked in conjunction with a rolling machine which functioned independently.
- 8 90 to 100-ton fuel oil furnaces
- 6 75-ton fuel oil furnaces
- 4 Electric furnaces (whose capacities varied between 5 and 15 tons).

All used oxygen ~~temperatures~~, were fed by a machine called "Trompa", and used two types of smokestacks (i.e. seven old brick and cement 70 to 80-meter high smokestacks and modern 20 to 25-meter high sheet iron smokestacks). Besides, each used two 4000-liter tanks which were used to circulate water through the inside of the furnace so that it would not get cold.

Since no units were kept for emergency purposes, specialists had to repair furnaces immediately right on the spot.

BUILDINGS AND THEIR ACTIVITIES

The plant had the following installations:

Fuel Oil Dump (1/1). This building was fenced in and supplied fuel oil to the furnaces.

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Moscow-Ulyanovsk Railroad Line (2/1).

Main Entrance (3/1).

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Drop Hammer Shop (5/1). It manufactured steel balls for bearings.

Electric Shop (6/1).

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Foundry (7/1). It had some 50-ton and some 20-ton overhead cranes i.e.

approximately five altogether. Besides, it had ~~overhead metal working~~

~~machines~~, a galvanizing section, and a mold section which made wooden
and iron molds.

Plant Railroad Sidings (8/1). They were connected to the Moscow-Ulyanovsk

Railroad Line and branched off to other plants.

^{n 12a.v}
Steam Shop (9/1). It supplied steam to the whole installation.

Loading and Unloading Railroad Platform (10/1).

Packing Shop (11/1). It crated small items.

Krasnoarmieskaya ulitsa ? (12/1).

Personnel Entrance (13/1).

Vehicle Entrance (14/1).

Personnel Control Office (15/1).

Toy Manufacturing Shop (16/1). It made toys out of sheets of stainless
silverware
steel, ~~trays~~, trays, etc. This was a restricted area.

Packing Shop (17/1). It crated items made in the Toy Manufacturing Shop.

Control Offices (18/1). This building checked the weights of in-coming and
out-going material on two platform scales.

Lathe Shop (19/1). It made wire.

Packing Shop (20/1). It crated the wire, and purified & polished stainless
steel. ^{P. 2 page 2} _{25X1}

Sheet Metal Rolling Shop (21/1).

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Sheet Metal Rolling Shop (23/1).

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Open-Air Mineral Dumps (24/1).Foot Bridge (25/1). It connected the laboratory with Sheet Metal Rolling

Shop № 23.

Laboratory (26/1). This was a secret installation.Elevated Bleeding
(27/1).Clinic and Administration Offices (28/1)."La Pera" Shop (29/1). It cut up the slag to be shipped out.Ulitsa Ilicha ? (30/1).Open-Air Dump (31/1). It cleaned out the molds used in the foundry.

RAW MATERIALS

The plant used fuel oil, iron ore, scrap iron, etc. All materials (except
scrap iron which came by truck) were brought by rail.

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WATER SUPPLY

The plant had a large tower located next to the fuel oil dump (1/1) which
stored drinking water pumped in from the city. Next to this was another
water tank which drew water from a well and pumped it in to the plant.

water pipes were located underground

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Power was supplied by an electric station located approximately one kil-

meter northwest of the plant. An electric transformer station, located in

the southeast corner of the plant grounds, stepped down electricity to an

average of 220 to 120 volts. [redacted] the plant had sufficient

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current; there were two meters (one low voltage meter was kept for emer-

gencies and took care of the more important installations such as the ma-

nometers, water levels, etc.).

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TRANSPORTATION

The standard gauge plant railroad sidings were connected to the Moscow-

Ulyanovsk Railroad line. They used box cars and 60-ton platform cars.

All material was kept in good condition. Loading and unloading platforms

are indicated (No 10) on the legend to the attached sketch. [redacted]

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The plant made use of the city's streets. It used an unspecified number

of large trucks of not less than five tons. each.

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STORAGE

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One [] of the open-air dumps (31/1) was located approximately four meters from

the Foundry. Between the two there was an overhead crane. The open-air

mineral dumps were located eight or ten meters from the adjacent buildings.

The

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fuel oil dump had about 10 dark green storage tanks []

[] Fuel oil was drawn through pipes from the

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tank cars; in winter they used a steam heating coil tube.

The fire brigade was quartered outside the installation. They were assis-

ted by other personnel also instructed in fire fighting methods. Besides,

there were hoses and alarms (located in glassboxes) which were connected

to the Fire Department.

PRODUCTION METHODS

All [] minerals were prepared right in the plant. The ore had an 80 percent

pure mineral content. []

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[] They were heated from 1,500 to 1,900 degrees. Slag was cut

up [] and shipped out to be used for construction work.

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Only the stainless steel and the wire were refined here. []

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